



4278] Attorney Docket No. : UNI-116 US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Doddrell et al.
Serial No. : 10/525,932
Filed : February 25, 2005
For : COIL ARRAY FOR MAGNETIC RESONANCE IMAGING
Examiner : T. Fetzner
Group : 2859

INFORMATION DISCLOSURE STATEMENT

In accordance with 37 CFR §1.56 and 37 CFR §1.97(c), applicants wish to call the Examiner's attention to the references listed on the Modified 1449 Form submitted herewith.

Pursuant to 37 CFR §1.97(c) and 37 CFR §1.17(p), a check for \$180.00 is enclosed. The Director is hereby authorized to charge any additional fees which may be required by this paper, or credit any overpayment, to Deposit Account No. 11-1158.

Copies of the references listed on the 1449 form are submitted herewith, with the exception of the references which are U.S. patents (37 CFR §1.98(a)(2)(ii)). However, if for any reason, the Examiner believes it is necessary or desirable for applicants to provide copies of all or some of the U.S. patent references, the Examiner is requested to advise the undersigned attorney and any copies required will be provided.

Reference 6 is an English language patent publication corresponding to Reference 8.

The Examiner is respectfully requested to initial a copy of the Modified 1449 Form and return it to applicants to indicate consideration of the references listed thereon in connection with the prosecution of this application.

Respectfully submitted,

Date: 12/27/06

Maurice Klee

Maurice M. Klee, Ph.D.

Reg. No. 30,399

Attorney for Applicant

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Effective on 12/08/2004.

Fees subject to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL

JAN 03 2007

For FY 2005☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) \$180.00

Complete if Known

Application Number 10/525,932

Filing Date February 25, 2005

First Named Inventor Doddrell

Examiner Name T. Fetzner

Art Unit 2859

Attorney Docket No. UNI-116 US

METHOD OF PAYMENT (check all that apply)☒ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify):☒ Deposit Account Deposit Account Number: 11-1158 Deposit Account Name: Maurice M. Klee, Ph.D.

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☐ Charge fee(s) indicated below☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17☒ Credit any overpayments**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.****FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180
Total Claims	Extra Claims	Fee (\$)
- 20 or HP =	x	=
HP = highest number of total claims paid for, if greater than 20.		
Indep. Claims	Extra Claims	Fee (\$)
- 3 or HP =	x	=
HP = highest number of independent claims paid for, if greater than 3.		
		Multiple Dependent Claims
		Fee (\$)
		Fee Paid (\$)

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	/ 50 =	(round up to a whole number) x	=	

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Fee under 37 CFR 1.17(p) for submission of an

Other (e.g., late filing surcharge): Information Disclosure Statement

Fees Paid (\$)

\$180.00

SUBMITTED BY

Signature	Maurice Klee	Registration No. 30,399 (Attorney/Agent)	Telephone (203) 255-1400
Name (Print/Type)	Maurice M. Klee, Ph.D.	Date	December 27, 2006

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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MODIFIED 1449 FORMU.S. PATENT DOCUMENTS

<u>Examiner Initial</u>		<u>Document Number</u>	<u>Issue Date</u>	<u>Name</u>
_____	1.	4,686,473	08/1987	Chesneau et al.
_____	2.	4,799,016	01/1989	Rezvani
_____	3.	4,825,162	04/1989	Roemer et al.
_____	4.	4,833,409	05/1989	Eash
_____	5.	6,411,090	06/2002	Boskamp
_____	6.	6,768,302	07/2004	Vester

FOREIGN PATENT DOCUMENTS

<u>Examiner Initial</u>		<u>Document Number</u>	<u>Date</u>	<u>Country</u>
_____	7.	301 232 B1	02/1995	EP
_____	8.	1 298 446 A2	04/2003	EP
_____	9.	WO 03/038460	05/2003	PCT
_____	10.	WO 03/107027	12/2003	PCT
_____	11.	WO 2004/001435	12/2003	PCT

OTHER ART

Examiner
Initial

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| _____ | 12. | "Scattering Parameters," <u>Wikipedia, The Free Encyclopedia</u> ,
< http://en.wikipedia.org/wiki/Scattering_parameters >
(accessed December 15, 2006). |
| _____ | 13. | Callaghan, P. T., <u>Principles of Magnetic Resonance
Microscopy</u> , Oxford University Press, 1994. |
| _____ | 14. | Meyer, et al., "Fast Spiral Coronary Artery Imaging, " <u>Magn.
Reson. Med.</u> , 1992, 28:202-213. |
| _____ | 15. | Pipe, J. G., "Turboprop-an improved Propeller Sequence for
Diffusion Weighted MRI," <u>Proc. Intl. Soc. Magn. Reson. Med.</u> ,
2002, 10:435. |
| _____ | 16. | Porter, et al., "16-element phased array head coil," <u>Magn.
Reson. Med.</u> , 1998, 40:272-279. |
| _____ | 17. | Pruessmann, et al., "SENSE: sensitivity encoding for fast
MRI," <u>Magn. Reson. Med.</u> , 1999, 42:952-962. |
| _____ | 18. | Roemer, et al., "The NMR Phased Array, " <u>Magn. Reson.
Med.</u> , 1990, 16:192-225. |
| _____ | 19. | Sodickson, et al., "Simultaneous acquisition of spatial
harmonics (SMASH): fast imaging with radiofrequency
arrays," <u>Magn. Reson. Med.</u> , 1997, 38: 591-603. |